

ABSTRACT

The current invention relates to the preparation of an improved cathode active material for non-aqueous lithium electrochemical cell. In particular, the cathode active material comprises ϵ -phase silver vanadium oxide prepared by using a γ -phase silver vanadium oxide starting material. The reaction of γ -phase SVO with a silver salt produces the novel ϵ -phase SVO possessing a lower surface area than ϵ -phase SVO produced from vanadium oxide (V_2O_5) and a similar silver salt as starting materials. Consequently, the low surface area ϵ -phase SVO material provides an advantage in greater long term stability in pulse dischargeable cells.